



State of Utah

JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

Department of Administrative Services

D'ARCY DIXON PIGNANELLI  
Executive Director

Division of Facilities Construction and Management

F. KEITH STEPAN  
Director

## ADDENDUM #2

Date: 8 May 2006

To: Contractors

From: Darrell Hunting , DFCM – Project Manager

Reference: St, George Armory – Roofing Improvements.

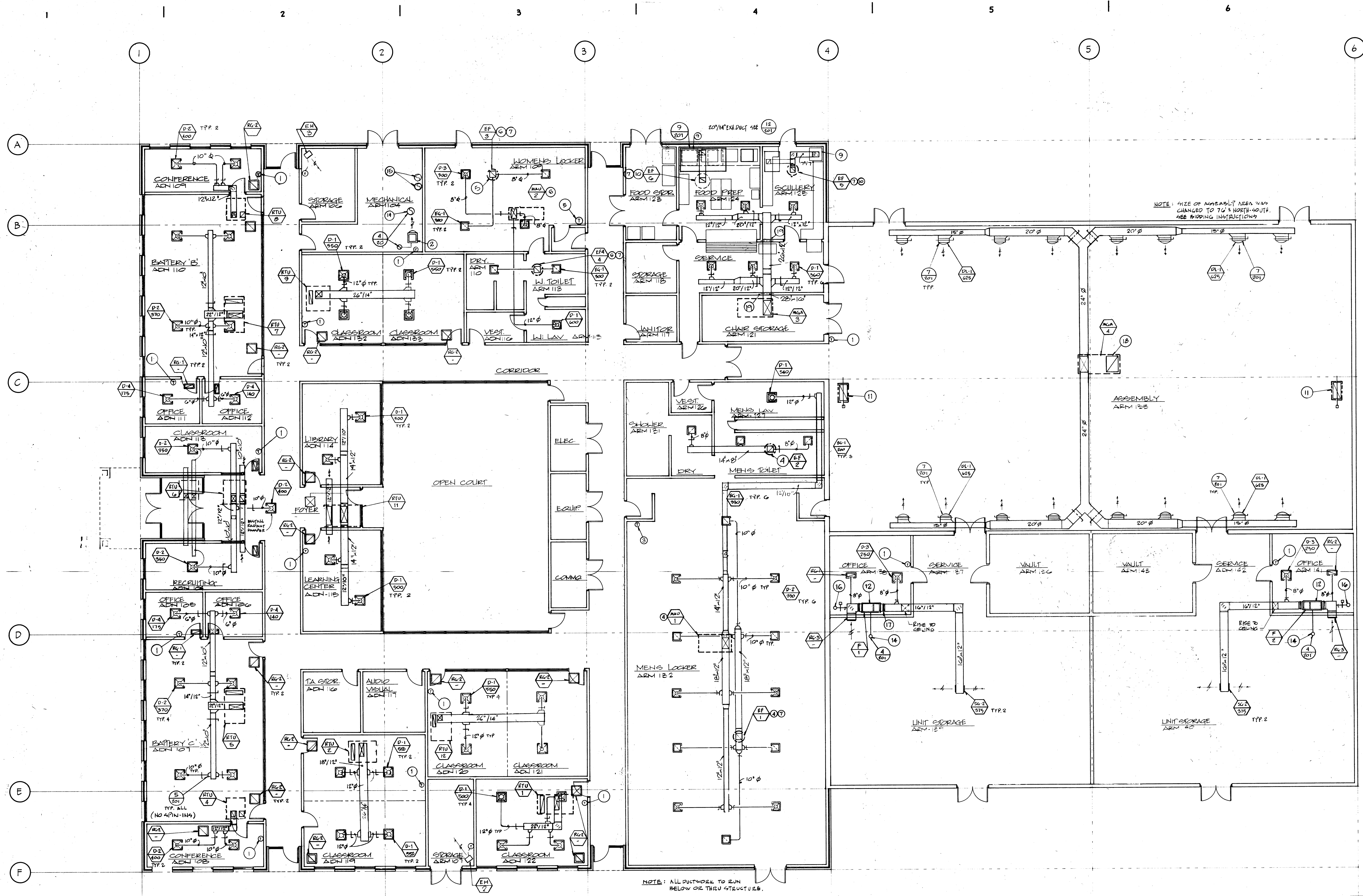
DFCM # 06063480

Subject: **Addendum No. 2**

Pages	Cover Page	1 page
	<u>Drawings</u>	<u>4 pages</u>
	<b>Total</b>	<b>5 pages</b>

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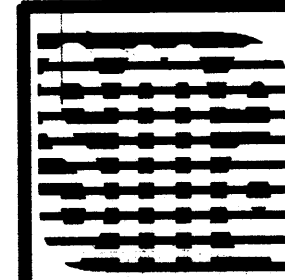
***Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.***

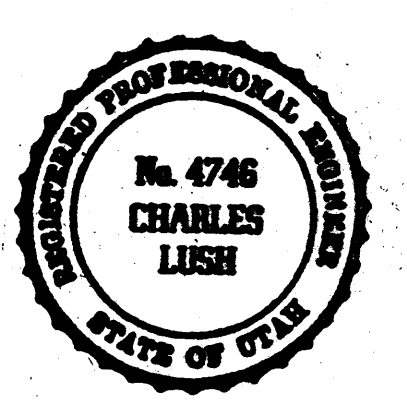


- KEYED NOTES:**
1. INSTALL THERMOSTAT AT 5'-0" A.F.F.
  2. FURNISH AND INSTALL MODINE PA-30, 30 MBH, PROPELLER TYPE GAS-FIRED UNIT HEATER. RUN TYPE "B" VENT THRU ROOF AND INSTALL BREIDERT WEATHER CAP. APPROVED ALTERNATE BY TRANE OR HASTINGS.
  3. INSTALL THERMOSTAT AND CONTROL PANEL FOR MAU-1 HERE.
  4. MAU-1, EF-1, AND EF-2 TO BE INTERLOCKED BY ELECTRICIAN.
  5. INSTALL THERMOSTAT AND CONTROL PANEL FOR MAU-2 HERE.
  6. MAU-2, EF-3, AND EF-4 TO BE INTERLOCKED BY ELECTRICIAN.
  7. ALL DUCTS SHALL RISE TO EXHAUST FANS FULL SIZE AND TRANSITION TO MATCH FAN INLET WITHIN 2' OF THE FAN.
  8. DISHWASHER HOOD TO BE FURNISHED BY OTHERS. INSTALLED BY CONTRACTOR.
  9. FURNISH AND INSTALL KITCHEN HOOD IN ACCORDANCE WITH ALL CODES. UNIT TO BE GAYLORD GX-BDL-8" LONG X 4'-6". SEE SPECS.
  10. MAU-3, EF-5, AND EF-6 TO BE INTERLOCKED BY ELECTRICIAN.
  11. FURNISH AND INSTALL 36" X 18" RELIEF HOOD ON ROOF. COOK TYPE VR COMPLETE WITH CURB AND MOTORIZED DAMPER PER ATC SPECS. APPROVED ALTERNATE BY PENN OR CESCO.
  12. FURNACE TO BE HUNG WITHIN 8" OF STRUCTURE AND SEISMICALLY BRACED.
  13. RUN TYPE "B" FURNACE VENT THRU ROOF. SEE DETAIL.
  14. RUN TYPE "B" WATER HEATER VENT THRU ROOF. SEE DETAIL.
  15. DROP 16" ROUND COMBUSTION AIR DUCTS FROM ROOF. ONE TO BE WITHIN 12" OF CEILING; THE OTHER WITHIN 12" OF FLOOR. SECURE TO WALL. INSTALL BREIDERT OR EQUAL WEATHER CAPS.
  16. DROP 8" ROUND FRESH AIR DUCT FROM ROOF AND TRANSITION TO 8" X 8". CONNECT TO FURNACE RETURN DUCT. INSTALL MVD AND MOTORIZED DAMPER WHERE SHOWN. SET FRESH AIR PER FURNACE SCHEDULE. INSTALL BREIDERT OR OTHER WEATHER CAP.
  17. INSTALL NEOPRENE FLEX CONNECTION BETWEEN DUCTS AND FURNACE. TYPICAL.
  18. FLARE RETURN DUCT OF MUA-4 AND INSTALL 60" X 48" RA GRILLE NEAR LEVEL OF BOTTOM OF JOISTS.
  19. FURNISH AND INSTALL FIRE/SMOKE DAMPER WITH 120 VOLT DAMPER MOTOR. DAMPER TO BE RUSKIN PSD-80 OR APPROVED ALTERNATE BY GREENHECK. ELECTRICAL CONNECTION BY ELECTRICIAN.

MECHANICAL FLOOR PLAN  
SCALE: 1/8" = 1'-0"

Project North

 <b>SORENSEN / MACKAY ASSOCIATES, INC.</b> ARCHITECTS / PLANNERS FIFTH STREET PLAZA 3690 SOUTH 500 WEST, SUITE 102 SALT LAKE CITY, UTAH 84115 (801) 262-1913 FAX (801) 262-9407	
UTAH NATIONAL GUARD <b>ARMORY</b> ST. GEORGE, UTAH DFCM PROJECT NO. NF : 92-182	
DRAWING TITLE: <b>MECHANICAL FLOOR PLAN</b>	
JOB NO.: UNG 9216	SHEET NUMBER
DATE:	<b>M100</b>
DRAWN BY: SJK	
CHECKED BY:	
APPROVED:	





GAS FIRED FURNACE SCHEDULE													
SYMBOL	MANUFACTURER MODEL	SUPPLY FAN		RPM	HP	HEATING		GAS CON	FLUE	ELECTRICAL	OPERATING WEIGHT	O.A. CFM	
		CFM	TSP			INPUT	OUTPUT						RISE
F 1	TEANE TUD0406924B	1285	0.5"	MED HIGH	1/2	100	80	55	1/2"	4"	115/60/1	169	50
F 2	"	"	"	"	"	"	"	"	"	"	"	"	"
F 3	TEANE TUD0406924B	600	0.5"	MED HIGH	1/2	40	32	55	1/2"	4"	115/60/1	119	60
F 4	TEANE TUD0406924B	600	0.5"	MED HIGH	1/2	40	32	55	1/2"	4"	115/60/1	119	60

\* CONDENSING UNIT TO BE 2-TON, TEANE MODEL TJR024C100A, 208/230V/60/1Ø, MCA=15.  
EVAPORATIVE COIL TO BE TXC024MFB COMPLETE W/ THERMAL EXPANSION VALVE.

ROOF TOP UNIT SCHEDULE															
SYMBOL	MANUFACTURER MODEL	SUPPLY FAN		RPM	HP	COOLING		HEATING		ELECTRICAL	OPERATING WEIGHT	O.A. CFM			
		CFM	BSP			MBH	END	BTU	AMB.				INPUT	OUTPUT	VOLTAGE / PHASE
RTU 1	TEANE YCD060C910B	2000	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	1000	450
RTU 2	TEANE YCD060C910B	2200	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	1000	450
RTU 3	DELETED														
RTU 4	TEANE YCD024FI10B	800	0.5"	-	1/2	22.8	67	75	105	90	32	15.7	208/1Ø	400	125
RTU 5	TEANE YCD060C910B	2000	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	1000	150
RTU 6	TEANE YCD060C910B	1200	0.5"	-	1/2	34.5	67	75	105	77.5	62	18	208/3Ø	900	100
RTU 7	TEANE YCD060C910B	2000	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	1000	150
RTU 8	TEANE YCD024FI10B	800	0.5"	-	1/2	22.8	67	75	105	90	32	15.7	208/1Ø	400	125
RTU 9	TEANE YCD060C910B	2200	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	900	450
RTU 10	DELETED														
RTU 11	TEANE YCD060C910B	1800	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	1000	350
RTU 12	TEANE YCD060C910B	2200	0.5"	-	3/4	58.5	67	75	105	90	72	31	208/3Ø	1000	450
RTU 13	DELETED														

MAKE-UP AIR UNIT SCHEDULE													
SYMBOL	MANUFACTURER MODEL	SUPPLY FAN		RPM	HP	O.A.I.	R.A.	HEATING		GAS CON	ELECTRICAL	OPPER. WEIGHT	
		CFM	TSP					INPUT	OUTPUT				
MU1	TEANE GENCO20 INDIRECT	2500	0.5"	770	1	100%	0%	200ASH	141 ASH +	80"	1 1/2"	208/60/1 #p	950 Lb.
MU2	TEANE GENCO20 INDIRECT	1200	0.5"	860	1/2	100%	0%	100ASH	73.5 ASH	80"	3/4"	120/40/1 #p	800 Lb.
MU3	TEANE DEKA 112 DIRECT	3040	0.5"	-	2	100%	0%	225ASH	225ASH	70"	3/4"	208/60/1 #p	1100 Lb.
MU4	TEANE GENC 120 INDIRECT	1750	0.5"	1250	10	4860 CFM MIN	5440 CFM MAX	882ASH	882ASH	80"	3/8"	208/60/1 #p	3600 Lb.
MU5	BALUNZA 3-1 050 DIRECT	3100	0.5"	-	3	20%	20%	387.5ASH ASH	285.2ASH	100"	1"	208/60/1 #p	1100 Lb.

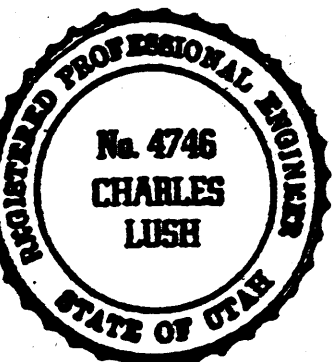
\* MINIMUM AT JOBSITE NOTE: NONE OF THE UNITS HAVE EVAPORATIVE COOLING SECTIONS.

EXHAUST FAN SCHEDULE													
SYMBOL	MANUFACTURER MODEL	TYPE	CFM	SP	FAN RPM	Outlet Velocity	SONES	MOTOR			WEIGHT		
								H. P.	R. P. M.	STARTER		VOLTAGE / PHASE	
EF 1	COOK 150 24B	ROOF MTD UPBLAST	1930	0.5"	1175	-	13.9	1/2	1750	BY ELEC.	115/1Ø	110 Lb.	
EF 2	COOK 100 22B	"	540	0.3"	1380	-	10.1	1/8			115/1Ø	50 Lb.	
EF 3	COOK 100 22B	"	600	0.3"	1595	-	10.4	1/6			115/1Ø	50 Lb.	
EF 4	COOK 100 22B	"	600	0.3"	1595	-	10.4	1/6			115/1Ø	50 Lb.	
EF 5	COOK 100 22B	"	615	0.3"	1805	-	12.2	1/6			115/1Ø	50 Lb.	
EF 6	COOK 180 28B	"	3375	1.5"	1370	-	20.0	1 1/2			203 V/Ø	150 Lb.	
EF 7	COOK 150 CA 17B-11, 1/8" BT. DIA. CA. 17B-11	"	3200	5.0"	2800	2000	-	5			203 V/Ø	350 Lb.	
EF 8	COOK 150 WGB	SIDEWALL CENTRIFUGAL	2400	3/8"	1420	-	20.0	3/4			115/1Ø	100 Lb.	
EF 9	COOK 180 25B	ROOF MTD UPBLAST	3075	3/8"	945	-	12.9	1/2			115/1Ø	120 Lb.	
EF 10	COOK 100 22B	"	400	0.2"	1165	-	6.0	1/6	↑	↑	115/1Ø	50 Lb.	
EF 11	COOK 100 22B	"	255	3/8"	1165	-	5.6	1/6	1750	BY ELEC.	115/Ø	50 Lb.	

REGISTER, GRILLE & DIFFUSER SCHEDULE					
SYMBOL	MANUFACTURER MODEL	TYPE	SIZE	PATTERN	DESCRIPTION
D1	NAILOZ 4200 RNS	SUPPLY DIFFUSER	12"	4-WAY	LAY-IN, WHITE FINISH, ORO, STEEL
D2	NAILOZ 4200 RNS	"	10"	"	"
D3	NAILOZ 4200 RNS	"	8"	"	"
D4	NAILOZ 4200 RNS	"	6"	"	"
DL1	NAILOZ 4506-JET	DECK LAMBER	24"/10"	ADJUSTABLE	ANODIZED ALUMINUM
DL2	NAILOZ 615HD	SIDEWALL SUPPLY GRILLE	12"/6"	ADJUSTABLE	STEEL, WHITE FINISH, ORO
DL3	NAILOZ 615HD	"	16"/12"	ADJUSTABLE	"
DL4	NAILOZ 4360	PERFORATED RETURN	24"/24"	-	STEEL, LAY-IN, WHITE FINISH
DL5	NAILOZ 61PR	"	12"/12"	-	STEEL, SURFACE MOUNT, WHITE FINISH
DL6	NAILOZ 4360	"	12"/24"	-	STEEL, LAY-IN, WHITE FINISH
DL7	"	"	24"/24"	-	"
DL8	NAILOZ 31FH	SIDEWALL RETURN	24"/24"	-	STEEL, SURFACE MOUNT, WHITE FINISH
DL9	NAILOZ 31FH	"	60"/48"	-	"
DL10	NAILOZ 31FH	"	14"/6"	-	"
DL11	NAILOZ 61DGS	TRANSFER GRILLE	24"/12"	-	"

ELECTRIC HEATER SCHEDULE			
SYMBOL	MANUFACTURER MODEL	K.W.	VOLTAJE
EH1	MARKEL F0836	3.6	208/1Ø
EH2	MARKEL HFB5103	2.5	208/1Ø
EH3	MARKEL HFB5103	2.5	208/1Ø

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ST. GEORGE, UTAH

DFCM PROJECT NO. NF: 92-182

DRAWING TITLE:

MECHANICAL  
SCHEDULES

JOB NO: UNG 922

SHEET NUMBER

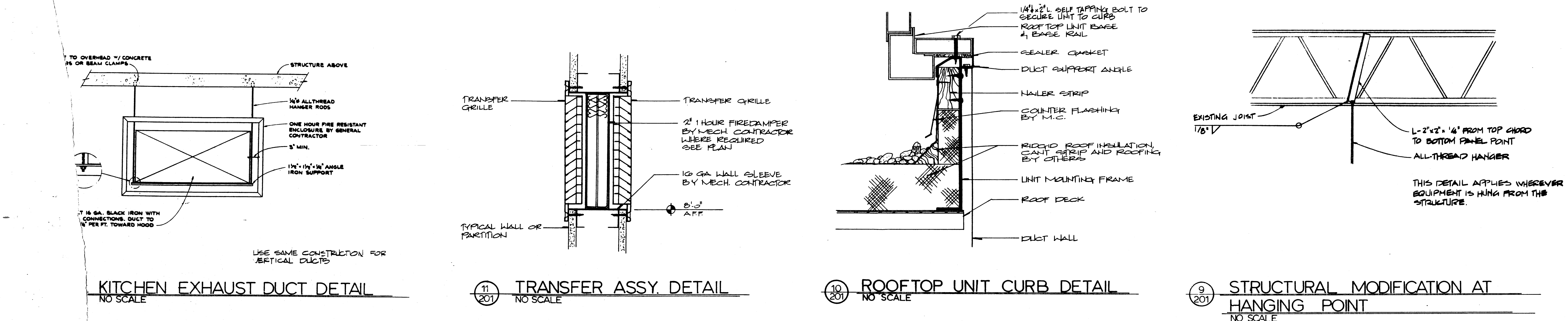
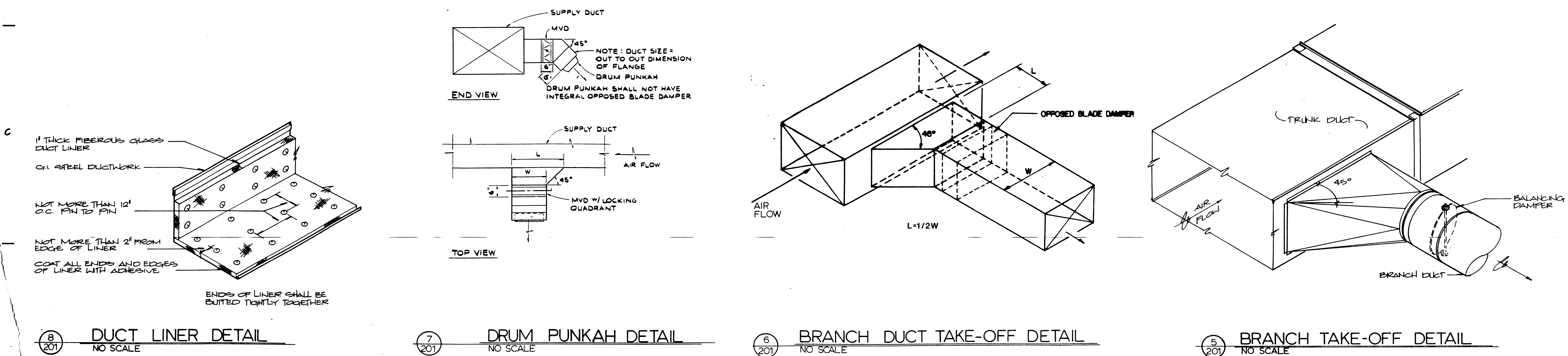
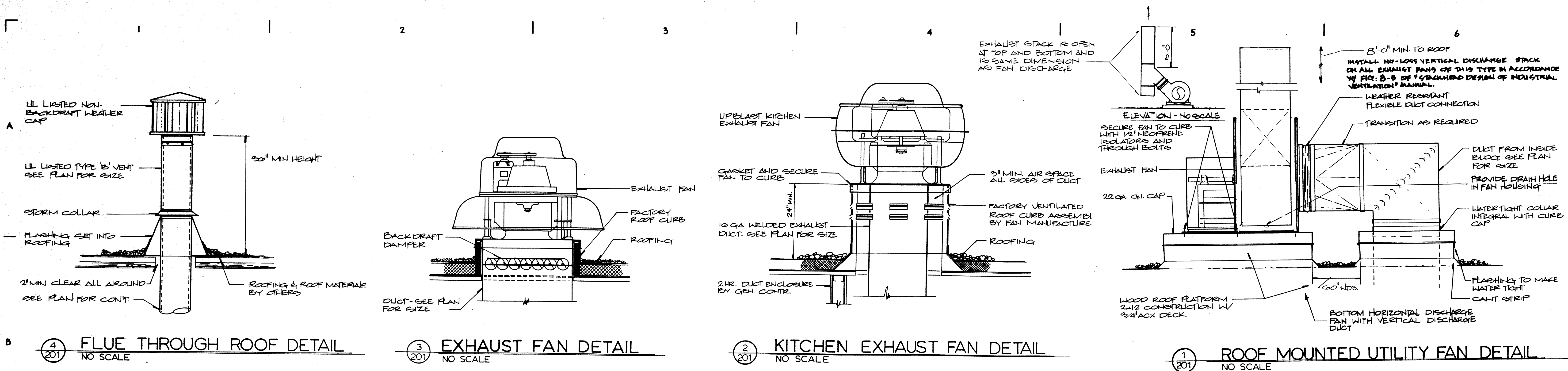
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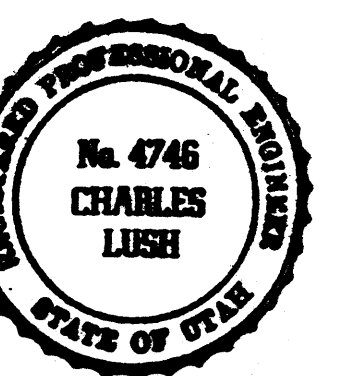
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ST. GEORGE, UTAH

DFCM PROJECT NO. NF : 92-182

DRAWING TITLE:

MECHANICAL  
DETAILS

JOB NO.: UNG 9122

SHEET NUMBER

DATE:

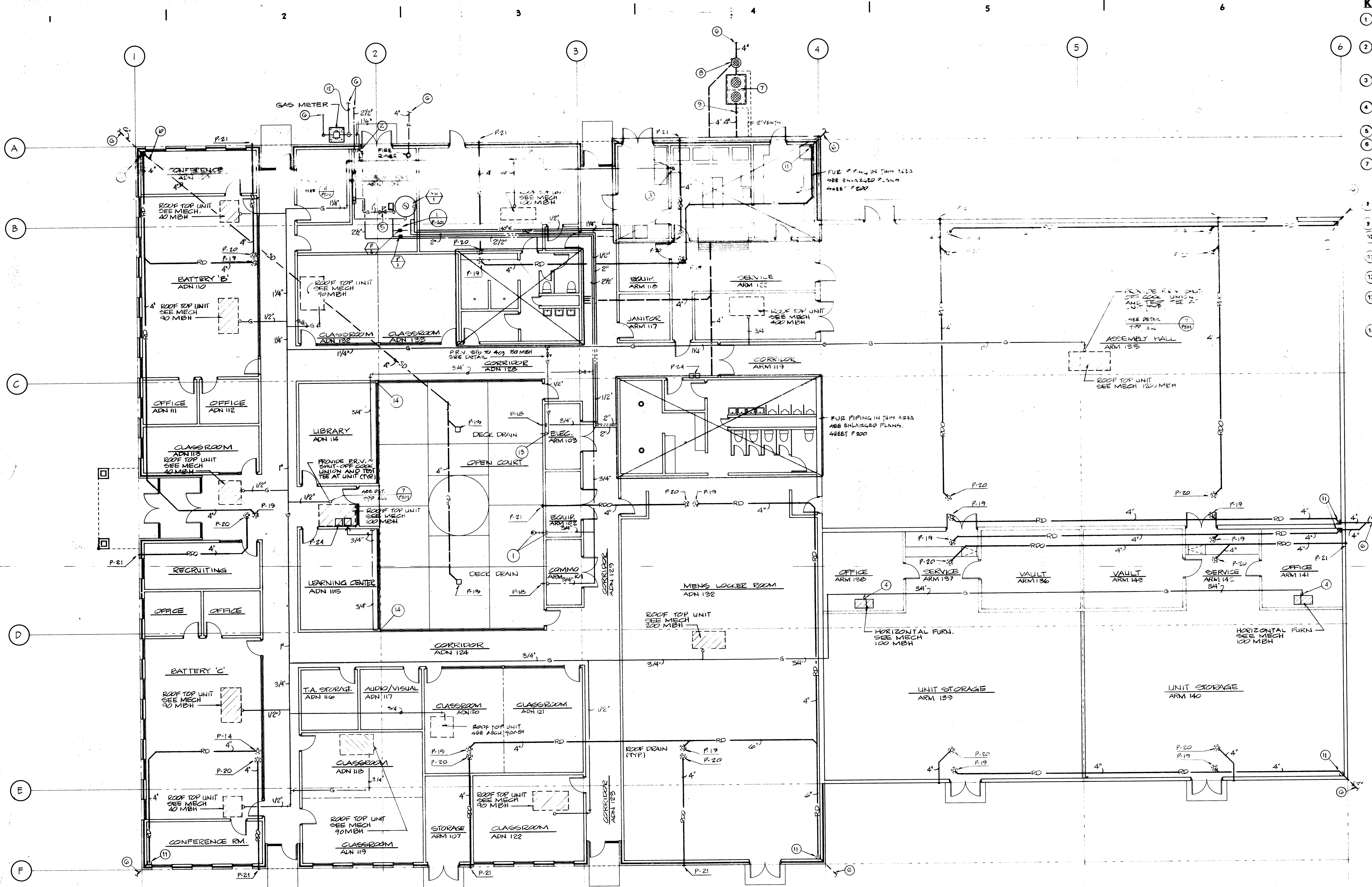
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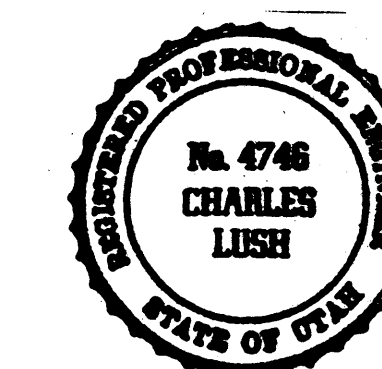


# KEYED NOTES:

1. DROP 3/4" COLD WATER LINE. INSTALL BALL VALVE AT 24" A.F.F. RUN LINE INTO COURTYARD AS SHOWN. RISE UP AND CAP ABOVE GRADE.
2. RISE GAS LINE IN MECH. ROOM. RISER TO CONTINUE THRU ROOF TO SERVE ROOFTOP EQUIPMENT. BRANCH OFF 1" IN MECH. ROOM TO SERVE WATER HEATER AND UNIT HEATER.
3. INSTALL 570 MBH 5/8" TO 4 OZ. REGULATOR, GAS COCK, AND UNION, AND DROP GAS LINE THRU ROOF TO KITCHEN.
4. INSTALL 100 MBH 5/8" TO 4 OZ. REGULATOR, GAS COCK, AND UNION, AND DROP GAS LINE THRU ROOF TO FURNACE.
5. INSTALL 5/8" TO 4 OZ. REGULATOR FOR WATER HEATER.
6. FOR CONTINUATION SEE UTILITY SITE PLAN SHEET C-101.
7. FURNISH AND INSTALL 800 GALLON GREASE INTERCEPTOR UNIT TO BE PRE-MANUFACTURED AND SHIPPED TO SITE. UNIT AND INSTALLATION SHALL MEET ALL STATE PLUMBING AND HEALTH CODE REQUIREMENTS.
8. FURNISH AND INSTALL 10" MINIMUM DIAMETER SAMPLING HOLE IN ACCORDANCE WITH STATE CODES.
9. INSTALL 3/4" GPM FLOW CONTROL DEVICE.
10. CONNECT DECK DRAIN LINE TO ROOF DRAIN LINE UNDER SLAB.
11. DROP ROOF DRAIN LEADER IN CORNER OF BUILDING AND INSTALL WALL CLEAROUT ABOVE FLOOR.
12. TEE INTO 5/8" OUTLET OF GAS METER PIPING AND RUN PLASTIC PIPING TO ONE BUILDING.
13. DROP GAS LINE THRU ROOF ON ROOM SIDE OF WALL AND RUN THRU WALL AND STUB OUT AT 18" ABOVE GRADE IN THE COURTYARD. PROVIDE GAS COCK AND CAP IN COURTYARD.
14. DROP 3/4" WATER LINE IN CORNER AS SHOWN AND RUN UNDER SLAB TO PLANTING AREA AS SHOWN. INSTALL BALL VALVE IN CEILING. INSTALL TEMPORARY CAP OUTSIDE OF BUILDING. SPRINKLER VALVE AND BACKFLOW PREVENTER TO BE INSTALLED BY OTHERS.

NOTE: INSTALL UNIONS IN GAS PIPING ON ROOF AT EVERY 20'-0" OF RUN & AT EVERY 45'-0" USING PIECE OF EQUIPMENT. PAINT EXPOSED GAS PIPING W/1 COAT PRIMER & 1 COAT GREY ENAMEL. PROVIDE RETURN BUCKING EVERY 10'-0" O.C. AND EVERY CHANGE IN DIRECTION. SEE DETAIL.

PLUMBING FLOOR PLAN  
SCALE 1/8" = 1'-0"



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UTAH NATIONAL GUARD  
**ARMORY**  
ST. GEORGE, UTAH  
DFCM PROJECT NO. NF : 92-102

DRAWING TITLE: <b>PLUMBING FLOOR PLAN</b>	
JOB NO.: LING 9216	SHEET NUMBER
DATE: 06-15-93	<b>P100</b>
DRAWN BY: GJK	
CHECKED BY:	
APPROVED:	

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